

10.1

Geometry – Polygons

Name: _____

Name the polygon that has the following condition.

1. Interior angle = 108° _____
2. Exterior angle = 40° _____
3. Interior angle = 120° _____
4. Exterior angle = 30° _____
5. Draw a concave pentagon.

6. Write the definition of a regular polygon: _____

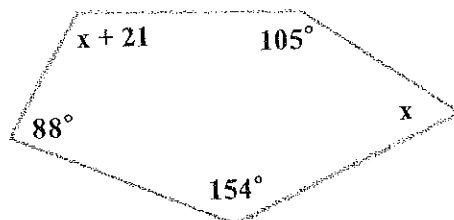
7. What is the sum of the measures of the interior angles of an octagon? _____

8. What is the measure of each exterior angle of a regular hexagon? _____

9. What is the measure of each interior angle of a regular decagon? _____

10. What is the sum of the measures of the exterior angles of a heptagon? _____

11. Find "x"



12. How many sides does a regular polygon have if each of its exterior angles measure 45° ? _____

13. The home plate in baseball which is a pentagon has three right angles. The other two angles are equal. Find the measure of each of the missing angles. _____

14. The measure of one interior angle of a regular polygon is two times the measure of one of its exterior angles. How many sides does this polygon have? _____